PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference NO 7403/WO/PCT				FOR FURTHER A	CTION		ion of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No. International filing PCT/EP 03/09999 09.09.2003			International filing date 09.09.2003	(day/mont	h/year)	Priority date (day/month/year) 10.09.2002	
1	nationa 3L1/30		ent Classification (IPC) or	both national classification	and IPC		
	icant STEC	S.A	. et al.				
1.	This Auth	inter nority	national preliminary ex and is transmitted to th	amination report has been applicant according to	en prepar Article 3	ed by this Int 6.	ternational Preliminary Examining
2.	2. This REPORT consists of a total of 6 sheets, including this cover sheet.						
		bee	n amended and are the	anied by ANNEXES, i.e. b basis for this report and on 607 of the Administrat	d/or shee	ts containing	tion, claims and/or drawings which have rectifications made before this Authority r the PCT).
	These annexes consist of a total of sheets.						
3.	This	repo	rt contains indications	relating to the following it	tems:		
	1	\boxtimes	Basis of the opinion				
	H		Priority				
•	Ш		Non-establishment o	f opinion with regard to n	ovelty, ir	nventive step	and industrial applicability
	IV	\boxtimes	Lack of unity of inver			·	,
V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applica citations and explanations supporting such statement						inventive step or industrial applicability;	
	VI		Certain documents of	ited			
	VII		Certain defects in the	international application	n		• •
	VIII		Certain observations	on the international app	lication		
Date	Date of submission of the demand					completion of	this report
19.0	19.01.2004					2005	
	Name and mailing address of the international					zed Officer	
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			Popa,	M one No. +49 89	2399-7829		

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1	Rasis	of the	report
	Dasis	Or tile	1 CDOL

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages						
	1-18		as originally filed				
	0 1-	in a Manakana					
	Cia	ims, Numbers	•				
	1-8		as originally filed				
2.	. With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	The	ese elements were ava	ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	ication of the international application (under Rule 48.3(b)).				
	the language of a translation furnished for the purposes of international preliminary examination (Rule 55.2 and/or 55.3).						
3.	Witl inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inter	rnational application in written form.				
		filed together with the	e international application in computer readable form.				
	furnished subsequently to this Authority in written form.						
		furnished subsequen	ntly to this Authority in computer readable form.				
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
The statement that the information recorded in computer readable form is identical to the written sequentisting has been furnished.							
4.	The amendments have resulted in the cancellation of:						
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this				
6.	Add	itional observations, i	f necessary:				

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I۷	٠.	Lack	of	uni	itv	of	inve	ntion
	-			••••	-,			

1.	In r	esponse to the invitation to restrict or pay additional fees, the applicant has:								
		restricted the claims.								
		paid additional fees.								
		paid additional fees under protest.								
		neither restricted nor paid additional fees.								
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.								
3.	 This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 1 is 									
		complied with.								
		not complied with for the follow	ving re	easons:						
 Consequently, the following parts of the international application were the subject of international preliminal examination in establishing this report: 										
		all parts.								
	\boxtimes	the parts relating to claims No	s. 1-5							
V.	Rea cita	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; tations and explanations supporting such statement								
1.	Stat	ement								
	Nov	elty (N)	Yes: No:	Claims Claims	4,5 1-3					
	Inve	entive step (IS)	Yes: No:	Claims Claims	4,5					
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-5					
2.	Cita	tions and explanations								

see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: US-B1-6 248 390 (STILLMAN SUZANNE JAFFE) 19 June 2001
 - **D2**: NINESS K.R.: 'Inulin and Oligofructose: What are They?' THE JOURNAL OF NUTRITION, vol. 129, no. 7 Suppl., July 1999, pages 1402S-1406S, XP002230319
 - D3: ROBERFROID M.B., DELZENE N.M.: 'Dietary fructans' ANNUAL REVIEW OF NUTRITION, ANNUAL REVIEWS INC., PALO ALTO, CA, US, vol. 18, 1998, pages 117-143, XP002123057 ISSN: 0199-9885
 - **D4**: BERRY D.: 'Hiding Healthful Ingredients' FOOD PRODUCT DESIGN, [Online] May 2002 (2002-05), XP002230318
 - D5: US-A-5 660 872 (BOOTEN KARL ET AL) 26 August 1997
 - **D6**: PATENT ABSTRACTS OF JAPAN vol. 2000, no. 09, 13 October 2000 & JP 2000 157233 A (NARITA TOMOTAKA), 13 June 2000
 - D7: US-A-4 978 751 (BITON JACQUES ET AL) 18 December 1990
 - **D8**: US-A-6 004 610 (TROUP JOHN P ET AL) 21 December 1999
- 2. This application covers 2 distinct inventions. As only the first invention (claims 1-5) has been subject to a search report, this examination report concerns only the aforementioned claims. This invention also seems to represent the main invention, in the sense of Art. 34(3)(c) PCT.
- 3. This application has been found to have deficiencies that contravene the PCT requirements.
- 3.1. Shelf-stable in claim 1 is regarded to be merely a descriptive feature as it cannot have a technical character in the sense used in this application. Moreover, since the term of shelf-stable can be used to describe different types of parameters (microbiologic, functional, organoleptic, physico-chemical), the presence of such a feature in the claims can lead to unclarities concerning the scope of the claims.

The same applies to *clear*.

3.2. Substantially and about are vague features that cannot be used to distinguish the alleged invention from the prior art provided the other features are simultaneously present. The affected claims are 1, 4 and 5.

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- 3.3. Therefore, the claims were analysed with the features mentioned above (§3.1-3.2) being excised from the claims. This removal was made solely for the purpose of examination and not as an amendment or correction (Rule 66.8(a) PCT).
- 4. Present application does not meet the requirement of Art. 33(1) PCT because the subject-matter of all examined claims is not new in the sense of Art. 33(2) and/or does not involve an inventive step in the sense of Art. 33(3) PCT.
- 4.1. Document D1 discloses (the references in parentheses applying to this document) a shelf-stable (see §3.1), essentially tasteless and odourless water-like composition (c. 6 l. 7-31; c. 7 l. 17-33) comprising oligosaccharides in form of starch hydrolysates or oligofructans (c. 5 l. 8-25) and water low in minerals (c. 5 l. 8-25), i.e. containing less than 500 mg/l dissolved salts. Said oligofructans inherited the $\beta(2-1)$ bonds of inulin and **D2** (p. 1402S) and **D3** (Table 1) confirms the value of DP of inulin and FOS.

D1's composition contains between 0.1 and 10% of said fibres.

There is no reason to believe the prior art composition deviates from a neutral pH (especially when the limits describing such a pH are largely stated in this application).

As a consequence, claims 1-3 do not meet the requirements of Art. 33(2) PCT for lack of novelty in their subject-matter.

- 5. This application does not meet the requirements of Art. 33(1) PCT because the subject-matter of claims 4 and 5 does not involve an inventive step in the sense of Art. 33(3) PCT.
- 5.1. D4 is considered to be the closest prior art document regarding the independent claim 4. D4 discloses one potential use of inulin and FOS; taste modifiers (i.e. overall taste improving). D4 says (chapter Inulin improves overall taste) that the short chain fructans interact with the taste buds and this behaviour modifies the taste perception. For this reason, FOS and inulin have been already employed in different beverages (masking off-flavours).

The difference between the disclosure of **D4** and the alleged invention of claim 4 consists in the carrier: neutral pH and demineralised water vs. beverages comprising different other ingredients. Thus, the objective problem to be solved can be formulated as how can one apply the taste modification teachings to a different carrier.

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Such carriers have been already used in **D1** (see **§4.1**) in combination with FOS and/or inulin to produce a water-like composition that shows, implicitly, a slight rise of sweetness. Furthermore, D4 prompts a person skilled in the art to use inulin/FOS in beverages for masking the aftertaste and/or off-flavours (i.e. for modifying the perception of several fundamental tastes).

Such a change comes within the scope of the customary practice followed by the skilled persons, especially as the advantages thus achieved can be readily contemplated in advance.

The same reasoning equally applies for the independent claim 5.

As consequence, the subject-matter of the independent claims 4 and 5 lacks an inventive step in the sense of Art 33(3) PCT.

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